

California Ambient Dioxin Air Monitoring Program Site Summary

Richmond

This page updated on October 9, 2002

Site Location:

Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) is being conducted at 1065 7th Street in Richmond. This site is part of the Bay Area Air Quality Management District's (BAAQMD) monitoring network for toxic pollutants.

Site Approval:

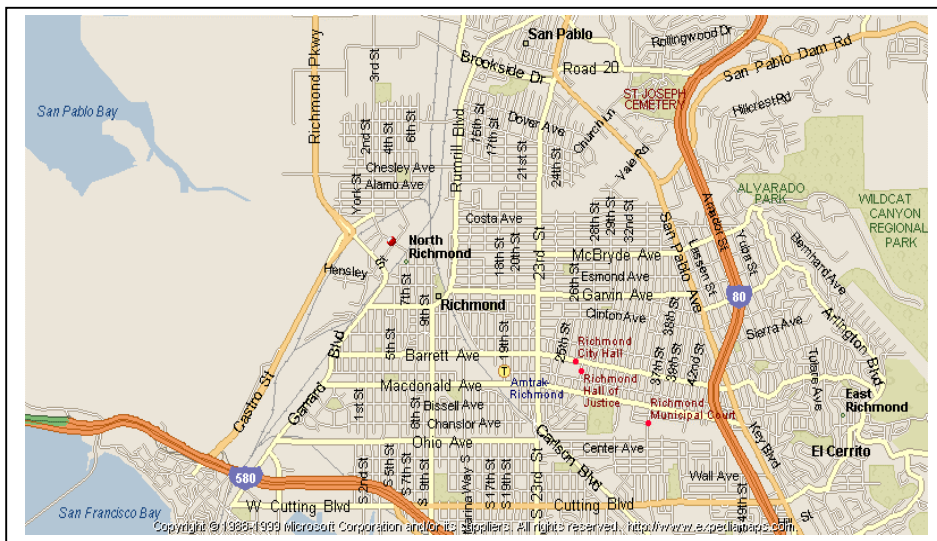
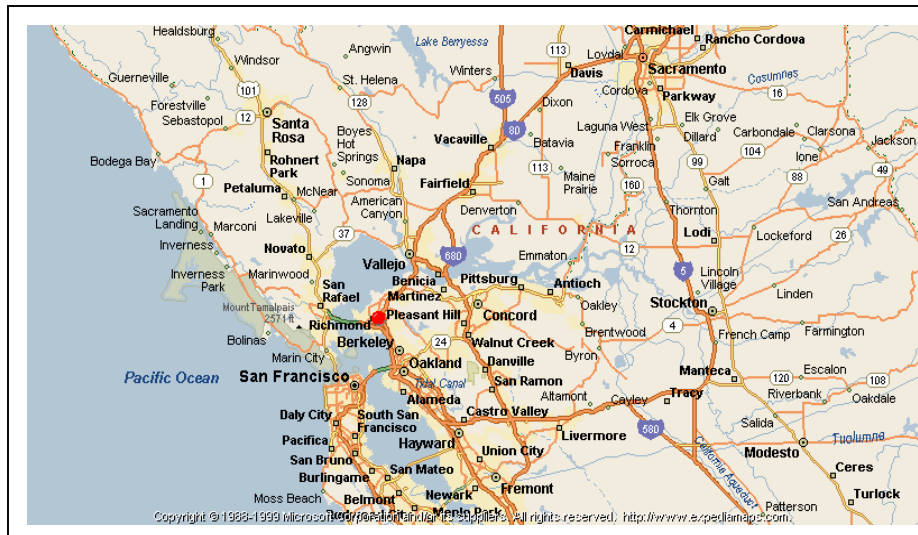
The BAAQMD agreed to collocate the CADAMP dioxin sampler with their toxic monitors for this program.

Monitoring Start Date:

Collection of samples for ambient air quality analysis for CADAMP at Richmond began in December 2001.

Reason for Choosing Richmond:

Richmond is located 16 miles northeast of San Francisco, directly across San Francisco Bay with a population of 101,700. Richmond was chosen as one of the nine sites for dioxin monitoring because it is



a central transportation hub in the Bay Area. Richmond has two Interstate freeways (80 and 580), two railroads, a deepwater shipping port, which is the third largest in annual tonnage in California, several local bus lines, Bay Area-wide rapid transit and USA-wide passenger rail service from the BART/AMTRAK station located in the heart of downtown.

There are also two international airports within 30 miles of Richmond. Richmond is situated near major metropolitan cities and new growth areas. Refinery operations and chemical manufacturers are nearby.

Emission Sources:

Emission sources in the vicinity include multiple freeways, heavy surface vehicular traffic, multiple mobile sources (bus, train, ship), wood burning fireplaces and industrial source categories that are suspected sources of dioxin.

Monitoring Parameters:

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans and congener specific PCBs. A total of 31 compounds will be evaluated each month.

Monitoring Schedule:

The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Quartz fiber filters and polyurethane foam (PUFs) comprise the sampling media. Filters will be collected and replaced every 6th day. PUFs will be collected on the 28th day. Filters and PUFs will be composited for a single monthly sample analysis.

Anticipated End Date:

The ARB anticipates that the ambient air monitoring will continue at Richmond for 2 years, ending after December 2003.

Agencies/Resources/Roles:

The ARB is the lead agency for carrying out the California Ambient Dioxin Air Monitoring Program and has overall responsibility for the study. The BAAQMD provided assistance in selecting the Richmond station and will perform all routine sample collection tasks. A laboratory under contract to ARB will perform analysis of samples collected at Richmond. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling, tracking the project, validating the data, conducting quality control and quality assurance activities and writing the quarterly reports. ARB's Stationary Source Division (SSD) will evaluate ambient concentrations to prioritize risk management strategies. Data will be shared with the U.S. EPA and the BAAQMD.

Connection to Other Air Resources Board Programs:

The BAAQMD is collecting samples routinely for air toxic measurements as part of their air toxic network at the Richmond site. Monitoring is currently being performed for SO₂, H₂S, and toxic organics.

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